

## CLAIMS

1. A material for an aperture grill for a color picture tube, characterized by being composed of a low-carbon alloy steel containing 0.60% by weight or more of Mn, 0.051% by weight or more of Si and 0.03% by weight or less of Al, the balance of its composition being Fe and unavoidable impurities.
2. A material for an aperture grill for a color picture tube, characterized by being composed of a low-carbon alloy steel containing 0.05% by weight or less of C, 0.60% by weight or more of Mn, 0.051% by weight or more of Si and 0.03% by weight or less of Al, the balance of its composition being Fe and unavoidable impurities.
3. A material for an aperture grill for a color picture tube, characterized by being composed of a low-carbon alloy steel strip containing 0.60% by weight or more of Mn, 0.051% by weight or more of Si and 0.03% by weight or less of Al, the balance of its composition being Fe and unavoidable impurities, and heat treated for shape correction at a temperature not causing its recrystallization.
4. A material for an aperture grill for a color picture tube, characterized by being composed of a low-carbon alloy steel strip containing 0.03% by weight or less of C, 0.60% by weight or more of Mn, 0.051% by weight or more of Si and 0.03% by weight or less of Al, the balance of its composition being Fe and unavoidable impurities, and heat treated for shape

correction at a temperature not causing its recrystallization.

5. A material for an aperture grill for a color picture tube, characterized by being composed of a low-carbon alloy steel strip containing 0.60% by weight or more of Mn, 0.051% by weight or more of Si and 0.03% by weight or less of Al, the balance of its composition being Fe and unavoidable impurities, subjected to surface roughening treatment giving a surface roughness Ra (JIS B 0601) of 0.1 to 0.8  $\mu\text{m}$ , and heat treated for shape correction at a temperature not causing its recrystallization.

6. A material for an aperture grill for a color picture tube, characterized by being composed of a low-carbon alloy steel strip containing 0.03% by weight or less of C, 0.60% by weight or more of Mn, 0.0051% by weight or more of Si and 0.03% by weight or less of Al, the balance of its composition being Fe and unavoidable impurities, subjected to surface roughening treatment giving a surface roughness Ra (JIS B 0601) of 0.1 to 0.8  $\mu\text{m}$ , and heat treated for shape correction at a temperature not causing its recrystallization.

7. A material for an aperture grill as set forth in any of claims 1 to 6, further containing 0.10% by weight or less of P.

8. A material for an aperture grill as set forth in any of claims 1 to 7, further containing 0.0040 to 0.030% by weight of N.

9. A material for an aperture grill as set forth in any of claims 1 to 8, further containing more than 0.001% by weight of Cu.
10. A material for an aperture grill as set forth in any of claims 1 to 9, further containing 0.10% by weight or less of S.
11. An aperture grill for a color picture tube made from a material for an aperture grill as set forth in any of claims 1 to 10.
12. A color picture tube in which an aperture grill as set forth in claim 11 is incorporated.